	Antimicrobial Susceptibi of Selected Pathogens, 2  INTERPLEBE OF TA  DEPARTMENT OF HEALTH  Sampling Methodology  † all isolates tested  * -1 isolate tested per week at MDH  -10% sample of statewide isolates rece  all isolates tested from 7-county metro  isolates from a normally sterile site	2001	, Campylobacter spp. 1*	Salmonella Typhimurium <sup>2</sup> †	Other <i>Salmonella</i> serotypes (non-typhoidal) <sup>2</sup>	Shigella spp.	Neisseria gonorrhoeae <sup>3</sup>	Neisseria meningitidis 41V	Group A Streptococcus †	Group B Streptococcus 5V	Streptococcus pneumoniae 6**v	Mycobacterium tuberculosis 7†	
	No. of Isolates Tested		55	164	38	46	123 <b>% Sus</b> (	27 ceptible	174	220	304	195	
	amoxicillin										94		
otics	ampicillin			67	89	17			100	100			
antibiotics	penicillin							96	100	100	77		
n an	cefuroxime sodium						100				82		
lactam	cefotaxime	otaxime						100	100	100	84		
β-la	ceftriaxone			95	95	98	100	100					
	meropenem							100			84		
Π	levofloxacin		11/11	////	11/1/	11111	11/1/	////	11/1/	11/1/	99	11///	
	ciprofloxacin		86 <sup>1</sup>	100	100	100	100	100		<i>\///</i>	1111		
	•		////	74	97	91	7777	100			97		
antibiotics	chloramphenicol			7777	/////	7777		7777	////	////	-		
ntibi	clindamycin		////						99	86	97		
er aı	erythromycin		96					<i>\////</i>	98	73	80		
Other	gentamicin		96										
	tetracycline		40								90		
	trimethoprim/sulfamethoxazole			96	97	78		59			71		
	vancomycin								100	100	100		
	ethambutol				////			////	////	////	/////	98	
tics	isoniazid											88	
antibiotics	pyrazinamide											97	
3 ani	rifampin							100				96	
TB	streptomycin							////				81	
	· ·		·////	////	X////	Dath a	X////	<i>X////</i>	<i>X////</i>	<i>X////</i>	<i>X/////</i>		
1	Campylobacter spp.	Trends, Comments and Other Pathogens  Ciprofloxacin susceptibility was determined for all isolates received (n=882), rather than one isolate pe week. Less than 52% of isolates from patients returning from foreign travel were susceptible to quinolones Susceptibilities were determined using 2001 NCCLS breakpoints for Enterobacteriaceae. Susceptibility for erythromycin was based on an MIC ≤ 4 µg/ml.  Antimicrobial treatment for enteric salmonellosis generally is not recommended.									nolones.		
2	Salmonella spp.											ntible to	
3	Neisseria gonorrhoeae	Isolates tested comprise 5% of total (2,666) cases reported. All isolates tested were susceptible cefpodoxime, cefixime and spectinomycin. No decreased susceptibility to azithromycin was ditected in 132 MN isolates tested through another surveillance system (GISP) using a CDC provisional breakpoint of 1.0 µg/ml.								was de-			
4	Neisseria meningitidis		wisional breakpoints from CDC. MIC ≤ 0.06 µg/ml to penicillin considered susceptible. In 2001, e isolate had intermediate susceptibility to penicillin (MIC of 0.12 µg/ml).										
5	Group B Streptococcus (GBS)	95% (21/22) of early-onset infant, 100% (17/17) of late-onset infant, 50% (7/14) of maternal, and 80% (175/218) of other invasive GBS cases were tested. 89% (40/45) of infant and maternal case isolates were susceptible to clindamycin and 80% (36/45) were susceptible to erythromycin. All 220 isolates had an MIC of <0.5 µg/ml to cefazolin. 7% (21/304) had intermediate susceptibility and 16% (48/304) were resistant to penicillin. In 2002											
6	Streptococcus pneumoniae	NCCLS cefotaxime and ceftriaxone breakpoints are changing for nonmeningitis pneumococcal isolates; reported above is the proportion of 2001 case isolates susceptible by meningitis breakpoints (intermediate=1.0 $\mu$ g/ml, resistant $\geq 2.0$ $\mu$ g/ml); by nonmeningitis breakpoints (intermediate=2.0 $\mu$ g/ml, resistant $\geq 4.0$ $\mu$ g/ml) 95% (288/304) of these isolates were susceptible. Isolates were screened for high-level resistance to rifampin at a single MIC; all were $\leq 2$ $\mu$ g/ml.											
7	Mycobacterium tuberculosis (TB)	National guidelines recommend initial four drug therapy where resistance to isoniazid (INH 4%. In MN, 12% of <i>M. tuberculosis</i> isolates were INH-resistant. Four cases of multi-drug TB (resistant to INH and rifampin) were identified, all among foreign-born persons. How percentage of U.Sborn cases resistant to at least one drug increased from an average of 75 past 4 years to 26% in 2001. Eight of 10 drug-resistant U.Sborn cases in 2001 were restreptomycin.									ulti-drug ns. Howe ge of 7%	resistant ever, the over the	
	Bordetella pertussis		All 117 isolates received were susceptible to erythromycin using provisional CDC breakpoints.										
	Escherichia coli O157:H7	Antimicrobial treatment for <i>E. coli</i> O157:H7 infection is not recommended.  MRSA infections continue to be reported via 12 sentinel laboratories. Patients are interviewed to								awed to			
	Methicillin Resistant  Methicillin Resistant  Staphylococcus aureus (MRSA)  MRSA isolates from 2000 (data pending from 2001), 44% were susceptible to erythromycin clindamycin, 79% to ciprofloxacin, 93% to tetracycline, 95% to trimethoprim/sulfamethoxazole rifampin and 100% to vancomycin. Of healthcare-associated MRSA isolates collected in 2000 laboratories, 8% were susceptible to erythromycin, 20% to clindamycin, 15% to ciprofloxacin tetracycline, 87% to trimethoprim/sulfamethoxazole, 94% to rifampin and 100% to vancomycin.									communi hromycin, hoxazole d in 2000 ofloxacin,	ty-onset 82% to , 97% to at these 92% to		

# Reportable Diseases, MN Rule #4605.7040

# Foodborne, Vectorborne and Zoonotic Diseases

Amebiasis (Entamoeba histolytica)

Anthrax (Bacillus anthracis) a

Babesiosis (Babesia spp.)

Botulism (Clostridium botulinum)a

Brucellosis (Brucella spp.)q

Campylobacteriosis (Campylobacter spp.) b

Cat scratch disease (infection caused by Bartonella spp.)

Cholera (Vibrio cholerae) a,b

Cryptosporidiosis (Cryptosporidium parvum)

Dengue virus infection

Diphyllobothrium latum infection

Ehrlichiosis (Ehrlichia spp.)

Encephalitis (caused by viral agents)g

Enteric *E. coli* infection (*E. coli* O157:H7 and other pathogenic *E. coli* from gastrointestinal infections) **b** 

Giardiasis (Giardia lamblia)

Hantavirus infectiong

Hemolytic uremic syndrome

Leptospirosis (Leptospira interrogans)

Listeriosis (Listeria monocytogenes) b

Lyme disease (Borrelia burgdorferi)

Malaria (*Plasmodium* spp.)

Plaque (*Yersinia pestis*)q

Psittacosis (Chlamydia psittaci)

Q fever (Coxiella burnetii)q

Rabies (animal and human cases and suspects) a

Rocky Mountain spotted fever (*Rickettsia* spp., *R. canada*)

Salmonellosis, including typhoid (Salmonella spp.) b

Shigellosis (Shigella spp.) b

Toxoplasmosis

Trichinosis (Trichinella spiralis)

Tularemia (Francisella tularensis)g

Typhus (Rickettsia spp.)

Yellow fever

Yersiniosis (Yersinia spp.) b

#### **Invasive Bacterial Diseases**

Haemophilus influenzae disease (all invasive disease) b,c
Memigris (caused by Haemophilus influenzae b, Neisseria
other bacterial agents) reptococcus pneumoniae b, or viral or

Meningococcemia (*Neisseria meningitidis*) **b,g Shreptos co can id dhsetrapt (adbdoivasid** e disease caused by

S. pneumoniae) b,c

Toxic shock syndrome b

#### Vaccine Preventable Diseases

# Diphtheria (Corynebacterium diphtheriae) b

Hepatitis (all primary viral types including A,B,C,D, and E)

Influenza (unusual case incidence or lab confirmed cases) d

Measles (Rubeola) a

Mumps a

Pertussis (Bordetella pertussis) a,b

Poliomyelitis a,d

Rubella and congenital rubella syndrome

Tetanus (Clostridium tetani)

# Sexually Transmitted Diseases and Retroviral Infections

Chancroid (Haemophilus ducreyi) a,e

Chlamydia trachomatis infections e

Gonorrhea (Neisseria gonorrhoeae) e

HIDGHERINGNARGHEITERETILITERNEUN SCHERFERME (AIDS)

Retrovirus infection (other than HIV)

Syphilis (Treponema pallidum) a,e

# Other Conditions

Agents of bioterrorism q

Blastomycosis (Blastomyces dermatitidis)

Histoplasmosis (Histoplasma capsulatum)

Increased incidence of any illness beyond expectations

Kawasaki disease

Legionellosis (Legionella spp.)d

Leprosy (Mycobacterium leprae)

Reye syndrome

Rheumatic fever (cases meeting the Jones Criteria only)

Staphylococcus aureus (only death or serious illness due to

methicillin-resistant S. aureus) b

Vancomycin Intermediate/Resistant Staphylococcus aureus d
Unexplained deaths b and serious illness d (possibly due to
infectious cause)

Tuberculosis (Mycobacterium tuberculosis and M. bovis) b

a Report immediately by telephone 612-676-5414 or 877-676-5414

- bSubmit isolates to the MDH. If a rapid, non-culture assay is used for diagnosis, we request that positives be cultured, and isolates submitted. If not possible, please send specimens, enrichment broth, or other appropriate material. Please call the MDH Public Health Laboratory at 612-676-5938 for instructions
- c Isolates are considered to be from invasive disease if they are isolated from normally sterile sites, e.g. blood, CSF, joint fluid, etc.
- dSubmission of isolates to MDH is requested, but not required by rule
- e Report on separate Sexually Transmitted Disease Report Card
- f Report on separate HIV Report Card
- gRequested to report immediately by telephone; reporting rule change expected in 2002

# Antimicrobial Susceptibilities of Selected Pathogens 2001



Minnesota Department of Health 717 Delaware Street SE Minneapolis, MN 55414 www.health.state.mn.us

# To Report a Case:

Fill out a Minnesota Department of Health case report form and mail to the above address. For diseases that require immediate reporting, or for questions about reporting, call the Acute Disease Investigation and Control Section at: 612-676-5414 or 877-676-5414 or fax form to 612-676-5743.

### To Send an Isolate to MDH:

Send isolates by U.S. mail using approved containers to the above address. If using a courier, isolates should be sent to 717 Delaware Street SE, Minneapolis, MN 55414. To order pre-paid etiologic agent mailers, or for other assistance, call the Public Health Laboratory Specimen Handling Unit at: 612-676-5396.

The MDH Antibiogram is available on the MDH Web site (http://www.health.state.mn.us). Laminated copies can be ordered from: Antibiogram, Minnesota Dept. of Health, Acute Disease Investigation and Control Section, 717 Delaware St. SE, Minneapolis, MN 55414.